



# Servicebio® Rat Bone Marrow Mesenchymal Stem Cells Chondrogenic Differentiation Kit Product Manual

Cat No.: G4117

## Product Information

Product Name	Cat No.	Spec.
Rat bone marrow mesenchymal stem cells chondrogenic differentiation kit	G4117-100ML	100 mL

## Product Introduction

Rat bone marrow mesenchymal stem cells chondrogenic differentiation complete culture medium is suitable for rat bone marrow mesenchymal stem cells induced chondrogenic differentiation. The product contains various components required for the chondrogenic differentiation growth of rat bone marrow mesenchymal stem cells. No additional ingredients are required. It can be directly used for the chondrogenic differentiation of rat bone marrow mesenchymal stem cells.

## Storage and Shipping Conditions

Refrigerated transport, 2-8 °C keep in dark place, Valid for 3 months.

## Product Component

Component Number	Component	G4117
G4117-1	Rat bone marrow mesenchymal stem cells chondrogenic differentiation complete culture medium	100 mL
G4117-2	Alcian blue dye	10 mL
Product Manuals		1 copy

## product instruction

1. The rat bone marrow mesenchymal stem cells to be induced were suspended in a 15 mL centrifuge tube as 4×10<sup>5</sup> cells/ tube, Centrifuge 150g for 5 min (It is recommended to use cells of less than 5 generations) Discard supernatant, 0.5mL rat bone marrow mesenchymal stem cells were added to induce complete media of chondroblast, Centrifuge 150g for 5 min.
2. Loosen the 15 mL centrifuge cap to facilitate gas exchange, It was cultured vertically in a CO<sub>2</sub> incubator at 37 °C, 5% CO<sub>2</sub> and saturated humidity. Do not shake the centrifuge tube for 24 hours, When clumps of cells appear (Usually about 48 hours) , Flick the 15 mL centrifuge tube to release the bottom cartilaginous balls from the bottom of the tube and suspend them in the medium.
3. Fresh rat bone marrow mesenchymal stem cells were used every 2-3 days to induce complete chondrogenic culture, 0.5mL per tube (Careful handling, Do not blow apart the cartilage ball) .
4. Continuous induction, generally about 21 days, Cartilaginous balls with a diameter of 1.5-2 mm are formed inside the tube, Termination induction.

## Note

1. When receiving the medium, please check whether the outer package is in good condition, whether it is damaged or leaking, if so, please contact as soon as possible.
2. This product is not easy to place at room temperature or higher temperatures for a long time.
3. The shelf life of this product is three months, please use within the shelf life.

4. Please strictly perform aseptic operation to avoid contamination.

**Research Use Only**  
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